

Rotenone

Cat. No. CEI-0571

Lot. No. (See product label)

Introduction

Description

A broad spectrum insecticide that is cell-permeable and brain-permeable. Acts as a mitochondrial electron transport chain inhibitor ($IC_{50} = 1.7 - 2.2 \mu M$ at complex I). Inhibits NADH oxidation by cardiac sarcoplasmic reticulum ($IC_{50} = 3.4 nM$). Neurotoxic agent that has also been used successfully to reproduce Parkinsons-like characteristics in in-vitro slice culture models.

Product Information

Appearance White to off-white solid

CAS No. 83-79-4

Molecular Formula C 23 H 22 O 6

Chemical Name (2R,6aS,12aS)-1,2,12,12a-Tetrahydro-8,9-dimethoxy-2-(1-(1-methylethenyl)-[1]benzopyrano[3,4-b]furo[2,3-][1]benzopyran-6(6aH)-one

Molecular Weight 678.48

Purity >98% by NMR

Targets microtubule

Solubility DMSO (100 mM) or Ethanol (50 mM)

Storage and Shipping Information

Storage -20 centigrade

Shipping Conditions Gel pack